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SHEET 1 OF 2

| FORM PTO - 1449<br><br>INFORMATION DISCLOSURE STATEMENT |  |  |          |                 | ATTORNEY DOCKET NO.: FJN-060DV (3999/63)<br><br>APPLICANT(S): Goto et al.<br><br>SERIAL NO.: 09/062,113<br><br>FILING DATE: April 17, 1998 GROUP: 1646 |              |                               |                  |                     |
|---|--|--|----------|-----------------|--|--------------|-------------------------------|------------------|---------------------|
| U.S. PATENT DOCUMENTS                                   |  |  |          |                 |  |              |                               |                  |                     |
| EXAM.<br>INIT.  |  | DOCUMENT<br>NUMBER   | DATE     | NAME            | CLASS  | SUB<br>CLASS | FILING DATE IF<br>APPROPRIATE |                  |                     |
|   |  |  |          |                 |  |              |                               |                  |                     |
| FOREIGN PATENT DOCUMENTS                                |  |  |          |                 |  |              |                               |                  |                     |
| EXAM.<br>INIT.  |  | DOCUMENT<br>NUMBER   | DATE     | COUNTRY<br>CODE | CLASS  | SUB<br>CLASS | FILING<br>DATE                | ABSTRACT<br>ONLY | ENGLISH<br>LANG Y/N |
| APR   | BE   | WO 96/28546  | 09/19/96 | PCT             | —  | —            | 03/15/95                      |                  | Y                   |
| APR   | BF   | WO 97/23614  | 07/03/97 | PCT             | —  | —            | 12/20/96                      |                  | Y                   |
| OTHER ART, JOURNAL ARTICLES, ETC.                       |  |  |          |                 |  |              |                               |                  |                     |
| EXAM.<br>INIT.  | OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) |  |          |                 |  |              |                               |                  |                     |
| APR   | CE   | Simonet et al., "Osteoprotegerin: a novel secreted protein involved in the regulation of bone density," CELL, vol. 89, April 18, 1997, pgs. 309-319.   |          |                 |  |              |                               |                  |                     |
| APR   | CF   | Reddi, "Bone morphogenesis and modeling: soluble signals sculpt osteosomes in the solid state," CELL, vol. 89, April 18, 1997, pgs. 159-161.   |          |                 |  |              |                               |                  |                     |
|   | CG   | Tsuda et al., "Isolation of a novel cytokine from human fibroblasts that specifically inhibits osteoclastogenesis," Biochem. and Biophys. Research Commun., vol. 234, May 8, 1997, pgs. 137-142.                         |          |                 |  |              |                               |                  |                     |
| APR   | CH   | Chambers et al., "Generation of osteoclast-inductive and osteoclastogenic cell lines from the H-2btsA58 transgenic mouse," Proceed. of the National Acad. of Sciences of USA, vol. 90, June 1993, pgs. 5578-5582.        |          |                 |  |              |                               |                  |                     |
|   | CI   | Smith et al., "The TNF receptor superfamily of cellular and viral proteins: activation, costimulation, and death," CELL, vol. 76, March 25, 1994, pgs. 959-962.  |          |                 |  |              |                               |                  |                     |
|   | CJ   | Goodwin et al., "Molecular cloning and expression of the type 1 and type 2 receptors for tumor necrosis factor," Database EMROD, EMBL Databases, Accession Number: M59378, June 28, 1991.                                |          |                 |  |              |                               |                  |                     |
|   | CK   | Chenu et al., "Transforming growth factor $\beta$ inhibits formation of osteoclast-like cells in long-term human marrow cells," Proceed. of the National Acad. of Sciences of USA, vol. 85, August 1998, pgs. 5683-5687. |          |                 |  |              |                               |                  |                     |
| APR   | CL   | Gowen et al., "Preferential Inhibition of Cytokine-Stimulated Bone Resorption by Recombinant Interferon Gamma," Journal of Bone and Mineral Research, vol. 1, number 5, 1986, pgs. 469-474.                              |          |                 |  |              |                               |                  |                     |
| EXAMINER <i>Paul Liller</i>                             |  |  |          |                 | DATE CONSIDERED <i>6/13/02</i>   |              |                               |                  |                     |

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## OTHER ART, JOURNAL ARTICLES, ETC.

| EXAM.<br>INIT. | OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) |  |
|----------------|--|--|
| <i>SP</i>      | CM   | Hattersley et al., "Human Macrophage Colony-Stimulating Factor Inhibits Bone Resorption by Osteoclasts Disaggregated From Rat Bone," Journal of Cellular Physiology, vol. 137, number 1, October 1998, pgs. 199-203. |
|                | CN   | Takada et al., "A simple method to assess osteoclast-mediated bone resorption using unfractionated bone cells," Bone and Mineral, vol. 17, 1992, pgs. 347-359.   |
|                | CO   | Kasono et al., "Inhibitory effect of interleukin-4 on osteoclast-like cell formation in mouse bone marrow culture," Bone and Mineral, vol. 21, 1993, pgs. 179-188.   |
| <i>SP</i>      | CP   | Watanabe et al., "Interleukin-4 as a Potent Inhibitor of Bone Resorption," Biochem. and Biophys. Research Comm., vol. 172, number 3, 1990, November 1990, pgs. 1035-1041.  |

EXAMINER

*David Moore*

DATE CONSIDERED

*6/12/00*

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| FORM PTO - 1449<br><br>INFORMATION DISCLOSURE STATEMENT                           |  |  |  | ATTY DOCKET NO.: FJN-060DV    |
|  |  |  |  | APPLICANT: <u>Goto et al.</u> |
|   |  |  |  | SERIAL NO.: <u>09/062,113</u> |
| FILING DATE: <u>April 17, 1998</u>  |  |  |  | GROUP: <u>1646</u>            |

## U.S. PATENT DOCUMENTS

| EXAM.<br>INIT. |    | DOCUMENT<br>NUMBER | DATE     | NAME         | CLASS | SUB<br>CLASS | FILING DATE IF<br>APPROPRIATE         |
|----------------|----|--------------------|----------|--------------|-------|--------------|---------------------------------------|
| <u>DK</u>      | AA | 5,118,667          | 06/02/92 | Adams et al. | 415   | 12           | <u>RECEIVED</u>                       |
|                | AB | 5,393,739          | 02/28/95 | Bentz et al. | 514   | 12           | <u>JUL 15 1998</u>                    |
|                | AC | 5,578,569          | 11/26/96 | Tam          | 514   | 12           |                                       |
|                | AD | 5,599,708          | 02/04/97 | Mundy et al. | 435   | 240.27       | <u>ATTY DOCKET<br/>SERVICE CENTER</u> |
| <u>DK</u>      | AE | 5,658,756          | 08/19/97 | Rodan et al. | 435   | 69.1         |                                       |
|                |    |                    |          |              |       |              |                                       |

## FOREIGN PATENT DOCUMENTS

| EXAM.<br>INIT. |    | DOCUMENT<br>NUMBER | DATE     | COUNTRY<br>CODE | CLASS | SUB<br>CLASS | FILING<br>DATE | ABSTRACT<br>ONLY | ENGLISH<br>LANG Y/N |
|----------------|----|--------------------|----------|-----------------|-------|--------------|----------------|------------------|---------------------|
| <u>DK</u>      | BA | 0514130 A2         | 11/19/92 | EP              | A61K  | 37/02        | 05/12/92       | N                | Y                   |
|                | BB | 0727211 A1         | 08/21/96 | EP              | A61K  | 31/50        | 02/07/96       | N                | Y                   |
|                | BC | WO97/00317         | 01/03/97 | EP              | C12N  | 15/11        | 06/04/96       | N                | Y                   |
| <u>DK</u>      | BD | WO97/00318         | 01/03/97 | EP              | C12N  | 15/11        | 06/04/96       | N                | Y                   |
|                |    |                    |          |                 |       |              |                |                  |                     |

## OTHER ART, JOURNAL ARTICLES, ETC.

| EXAM.<br>INIT. | OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) |  |
|----------------|--|--|
| <u>DK</u>      | CA   | F.W. Fawthrop et al., "The Effect of Transforming Growth Factor $\beta$ on the Plasminogen Activator Activity of Normal Human Osteoblast-like Cells and a Human Osteosarcoma Cell Line MG-63" <u>J. Bone and Mineral Res.</u> 7(12):1363-1371 (1992) |
|                | CB   | A.J. Fenton et al., "Long-Term Culture of Disaggregated Rat Osteoclasts: Inhibition of Bone Resorption and Reduction of Osteoclast-Like Cell Number by Calcitonin and PTHrP[107-139]" <u>J. Cellular Phys.</u> 155:1-7 (1993)                        |
|                | CC   | T. Suda et al., "Modulation of Osteoclast Differentiation by Local Factors" <u>Bone</u> 117(2 Supp.):87S-91S (1995)  |
| <u>DK</u>      | CD   | E. Tsuda et al., "Isolation of a Novel Cytokine from Human Fibroblasts that Specifically Inhibits Osteoclastogenesis" <u>Biochem. and Biophys. Res. Comm.</u> 234:137-142 (1997)   |

EXAMINER David Seale

DATE CONSIDERED

6/12/98 RECEIVEDJUL 16 1998  
GROUP 1801